

Patent Abstracts of Japan

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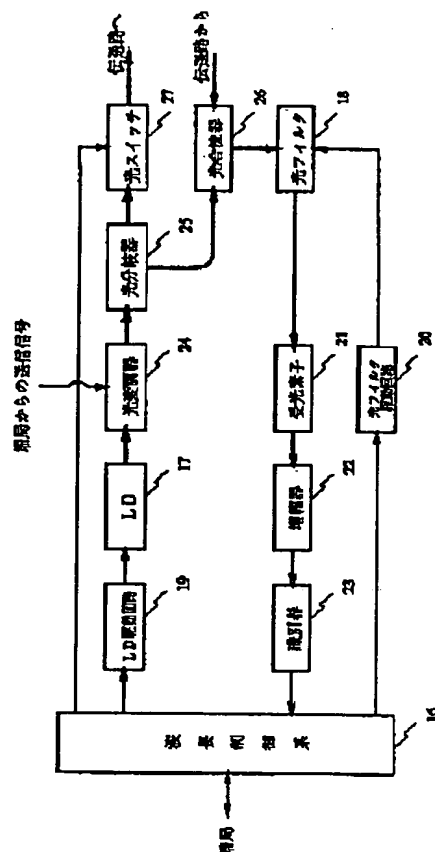
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TITLE : OPTICAL COMMUNICATION
EQUIPMENT AND WAVELENGTH
DETECTION METHOD



ABSTRACT : PROBLEM TO BE SOLVED: To prevent detection loss by obtaining a transparent wavelength corresponding to a leading and a trailing of an identification signal so as to obtain the wavelength of a transmission destination of each terminal station from its mean value when a set of a change in the identification signal whose trailing takes place in succession to the occurrence of its leading.

SOLUTION: In the case of generating signals corresponding to transmission lights 1, 2 by filter control voltages Vf1, Vf2 corresponding to wavelength sets λ_1, λ_2 , a wavelength control system 16 stores a control voltage Vf1 of an optical filter 18 at that point of time as a new leading voltage V_{up}. When the sweeping continues, an output voltage Va continues increasing and when a transparent wavelength is coincident with a transmission wavelength, the output voltage takes a maximum value and then is being decreased. When the output voltage Va is lower than a reference voltage V_{th1}, an identification signal 1 descends to 'L' from 'H'. The control system 16 stores a control voltage Vf2 of the filter 18 at that point of time as a trailing voltage V_{DOWN}. Succeedingly, a mean voltage between the V_{UP} and V_{DOWN} is taken and it is used as a control voltage Vf11 corresponding to the wavelength of the transmission light 1. The control voltage corresponding to the transmission light 2 is similarly obtained.

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